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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/789,188	02/27/2004	Ulf R. Hanebutte	INT.P013 6945		
45512 7	590 11/16/2006		EXAMINER		
LAWRENCE CHO			LE, JOHN H		
C/O PORTFOI P. O. BOX 520		ART UNIT	PAPER NUMBER		
	IS, MN 55402	2863			
			DATE MAILED: 11/16/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
Office Action Summary		10/789,188		HANEBUTTE, ULF R.				
		Examiner	-	Art Unit				
		John H. Le		2863				
Period fo	The MAILING DATE of this communication app or Reply	ears on the d	over sheet with the c	orrespondence ad	dress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS 36(a). In no event vill apply and will 6 , cause the applica	S COMMUNICATION , however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONEI	N. nely filed the mailing date of this co D (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) filed on 01 Se	entember 20	06.					
• —	This action is FINAL . 2b) ☐ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	4)⊠ Claim(s) <u>1-6,12-15,17-20,24-28 and 31-38</u> is/are pending in the application.							
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) <u>1-6,12-15,17-20,24 and 31-35</u> is/are allowed.							
6)⊠								
7)	Claim(s) is/are objected to.		•	•				
8)	Claim(s) are subject to restriction and/or	r election rec	uirement.		·			
	ion Papers							
	·							
-	The specification is objected to by the Examine							
10)⊠	10) \boxtimes The drawing(s) filed on <u>27 February 2004</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.							
	Applicant may not request that any objection to the		-	•				
	Replacement drawing sheet(s) including the correct	•			, ,			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 								
	2. Certified copies of the priority documents							
	3. Copies of the certified copies of the prior	•		ed in this National	Stage			
	application from the International Bureau	•	, ,,					
* See the attached detailed Office action for a list of the certified copies not received.								
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Attachmen	t(s)							
1) 🛛 Notic	e of References Cited (PTO-892)	. 4	1) Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da					
	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date		5)	atent Application				
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Art Unit: 2863

Response to Amendment

1. This office action is in response to applicant's amendment received on 09/01/2006.

Claims 1, 12, 13, 17, 18, 24, and 25 have been amended.

Claims 7-11, 16, 21-23, 29-30 have been cancelled.

Claims 31-38 have been added.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 25 and 38 are rejected under 35 U.S.C. 102(e) as being anticipated by Thelander et al. (US 2003/0009705).

Regarding claim 25, Thelander et al. disclose a power evaluation unit comprising: a data retriever unit (client service process 305) to retrieve power data (e.g. [0061]) to an operating system (301) by a battery (e.g. [0061], [0083], computer 205 is operating from battery power); and a data processor unit (microcontroller) to determine a net power consumption of an application from the power data (e.g. [0060]).

Art Unit: 2863

Regarding claim 38, Thelander et al. disclose a power evaluation unit comprising: a data retriever unit (client service process 305) to retrieve power data (e.g. [0061]) to form an operating system (301) by a battery (e.g. [0061], [0083], computer 205 is operating from battery power); and a data processor unit (microcontroller) to determine a net power consumption of an application from the power data (e.g. [0060]) by integrating a drain rate of the battery over the a period of time measured (e.g. Fig.4, [0044]-[0045]).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 26-28 and 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thelander et al. (US 2003/0009705) in view of Potega (US 2003/0085621).

Regarding claim 26, Thelander et al. fail to teach power data comprises power capacity and drain rate data from a battery.

Potega discloses the power data comprises power capacity (e.g. [0149]) and drain rate data from a battery (e.g. [0186]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform the power data comprises power capacity and drain rate data from a battery as taught by Potega in a method for managing

Art Unit: 2863

power data of Thelander et al. for the purpose of providing a intelligent power supply (Potega, [0081]).

Regarding claim 27, Potega discloses a data evaluation unit to determine a systematic error associated with a run-time for the power data (e.g. [0118]).

Regarding claim 28, Potega discloses the data evaluation unit determines a new run-time that reduces the systematic error (e.g. [0489]).

Regarding claim 36, Thelander et al. disclose a method for managing power data ([0008]), comprising: determining an amount of power used by a system running an application over a first time period from an operating system (e.g. [0056], [0058]-[0060]) by integrating a drain rate of the battery over the time period (e.g. Fig.4, [0044]-[0045]); determining an amount of power used by the system in a baseline state over a second time period from the operating system (e.g. [0056], [0058]-[0060], [0093]); and determining a net power consumption of the application from the amount of power used for the system running the application and the amount of power used by the system in the baseline state (e.g. [0056], [0093]).

Thelander et al. fail to disclose determining an amount of power used by a system running an application over the time period from power data supplied to an operating system by a battery over the time period.

Potega teaches steps of determining an amount of power used by a system running an application over the time period from power data supplied to an operating system by a battery over the time period (computer running power

Art Unit: 2863

management software monitors status of battery and control power supplied, [282]-[285], [183]-187]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform steps of determining an amount of power used by a system running an application over the time period from power data supplied to an operating system by a battery over the time period as taught by Potega in a method for managing power data of Thelander et al. for the purpose of providing a intelligent power supply (Potega, [0081]).

6. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Potega (US 2003/0085621) in view of Karunaratne (US 2004/0243376) and Culbert et al. (US 5,600,841).

Regarding claim 37, Potega discloses a method for managing power data (power management software), comprising: determining a systematic error of power data (e.g. [0118], [0273]-[0275]), supplied to an operating system by a battery (computer running power management software monitors status of battery and control power supplied, [282]-[285], [183]-187]), used for identifying an amount of power used by a system running an application by determining an update granularity of the power data (power supply data update by software, [0431]).

Potega fails to teach dividing the update granularity of the power data by the time period; and generating an indication to a user if the systematic error exceeds a predetermined value.

Art Unit: 2863

Karunaratne teaches dividing the update of the power data by the time period (e.g. [0074]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform steps of dividing the update of the power data by the time period as taught by arunaratne in a method for managing power data of Potega for the purpose of providing a method for estimating a power requirement of a circuit design (Karunaratne, [0013]).

Culbert et al. teach generating an indication to a user if the systematic error exceeds a predetermined value (e.g. Col.8, lines 8-12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform step of generating an indication to a user if the systematic error exceeds a predetermined value as taught by Culbert et al. in a method for managing power data of Potega in view of Karunaratne for the purpose of providing a system for controlling power in electronic devices (Culbert et al., Col.1, lines 11-14).

Allowable Subject Matter

7. Claims 1-6, 12, 13-15, 17, 18-20, 24, 31-35 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 1, in combination with other limitations of the claims, none of the prior art of record teaches or suggests the combination of a method for managing power data, comprising steps of: determining a net power consumption of the application from the amount of power used by the system

Art Unit: 2863

running the application and the amount of power used by the system in the baseline state; determining a systematic error of the power data used for determining the amount of power used by the system running the application by determining an update granularity of the power data and dividing the update granularity of the power data by the first time period; and generating an indication to a user if the systematic error exceeds a predetermined value. It is these limitations as they are claimed in the combination with other limitations of claim, which have not been found, taught or suggested in the prior art of record, that make these claims allowable over the prior art.

Regarding claim 13, in combination with other limitations of the claims, none of the prior art of record teaches or suggests the combination of a method for managing power data, comprising steps of: generating a new run-time to run the application and displaying the new run-time to a user if the update frequency is insufficient. It is these limitations as they are claimed in the combination with other limitations of claim, which have not been found, taught or suggested in the prior art of record, that make these claims allowable over the prior art.

Regarding claim 18, in combination with other limitations of the claims, none of the prior art of record teaches or suggests the combination of an article of manufacture comprising a machine accessible medium including sequences of instructions the sequences of instructions including instructions which when executed causes the machine to perform: determining a net power consumption of the application from the amount of power used by the system running the application and the amount of power used by the system in the baseline state:

Art Unit: 2863

determining a systematic error of the power data used for determining the amount of power used by the system running the application by determining an update granularity of the power data and dividing the update granularity of the power data by the first time period; and generating an indication to a user if the systematic error exceeds a predetermined value. It is these limitations as they are claimed in the combination with other limitations of claim, which have not been found, taught or suggested in the prior art of record, that make these claims allowable over the prior art.

Regarding claim 31, in combination with other limitations of the claims, none of the prior art of record teaches or suggests the combination of a method for managing power data, comprising steps of: determining a net power consumption of the application from the amount of power used by the system running the application and the amount of power used by the system in the computing a first net power value using power capacity data and a second net power data using drain rate data; and generating an indication to a user if the difference between the first and the second net power values exceeds a threshold value. It is these limitations as they are claimed in the combination with other limitations of claim, which have not been found, taught or suggested in the prior art of record, that make these claims allowable over the prior art.

Response to Arguments

8. Applicant's arguments filed 03/27/2006 have been fully considered but they are not persuasive.

Page 9

-Applicant argues that the prior did not teach "a data retriever unit to retrieve power data to an operating system by a battery; and a data processor unit to determine a net power consumption of an application from the power data" as cited in claim 25.

Examiner position is that Thelander et al. teach a data retriever unit to retrieve power data to an operating system by a battery; and a data processor unit to determine a net power consumption of an application from the power data as discussed above.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Specifically Karunaratne has been added to other ground of rejection.

Application/Control Number: 10/789,188 Page 10

Art Unit: 2863

Contact Information

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John H. Le whose telephone number is 571 272 2275. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 571 272 2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John H. Le

Patent Examiner-Group 2863

November 13, 2006

BRYAN BUI PRIMARY EXAMINER

J. Sha